AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8. (Canceled)

9. **(New)** In a fuel injector having a piezoelectric actuator directly actuating an injection valve member, which piezoelectric actuator acts on a booster piston, and a face end of the booster piston acts on a hydraulic coupling chamber for actuating the injection valve member, and the piezoelectric actuator is received in a hollow chamber in the injector housing, which hollow chamber is filled with a fuel volume that is under high pressure, the improvement wherein the diameter (d2) of a sealing edge in the actuator base region corresponds to the diameter (d_1) of the booster piston.

10. **(New)** The fuel injector in accordance with claim 9, wherein the piezoelectric actuator, on its head region, is solidly joined to the booster piston.

11. **(New)** The fuel injector in accordance with claim 9, wherein the face end of the booster piston, acting on a hydraulic coupling chamber, forms a larger hydraulically operative face than a face end of the injection valve member defining the hydraulic coupling chamber.

12. **(New)** The fuel injector in accordance with claim 10, wherein the face end of the booster piston, acting on a hydraulic coupling chamber, forms a larger hydraulically operative face than a face end of the injection valve member defining the hydraulic coupling chamber.

13. **(New)** The fuel injector in accordance with claim 9, wherein the piezoelectric actuator is surrounded by a potting material.

14. **(New)** The fuel injector in accordance with claim 9, wherein the hollow chamber in the injector housing surrounding the piezoelectric actuator acts on a nozzle chamber inlet extending to a nozzle chamber.

15. **(New)** The fuel injector in accordance with claim 10, wherein the hollow chamber in the injector housing surrounding the piezoelectric actuator acts on a nozzle chamber inlet extending to a nozzle chamber.

16. **(New)** The fuel injector in accordance with claim 11, wherein the hollow chamber in the injector housing surrounding the piezoelectric actuator acts on a nozzle chamber inlet extending to a nozzle chamber.

17. **(New)** The fuel injector in accordance with claim 9, wherein electrical terminals for supplying current to the piezoelectric actuator are guided by a threaded portion located above the actuator base region.

18. **(New)** The fuel injector in accordance with claim 10, wherein electrical terminals for supplying current to the piezoelectric actuator are guided by a threaded portion located above the actuator base region.

19. **(New)** The fuel injector in accordance with claim 11, wherein electrical terminals for supplying current to the piezoelectric actuator are guided by a threaded portion located above the actuator base region.

20. **(New)** The fuel injector in accordance with claim 13, wherein electrical terminals for supplying current to the piezoelectric actuator are guided by a threaded portion located above the actuator base region.

21. **(New)** The fuel injector in accordance with claim 14, wherein electrical terminals for supplying current to the piezoelectric actuator are guided by a threaded portion located above the actuator base region.

22. **(New)** The fuel injector in accordance with claim 9, wherein the a sealing edge, cooperating with a beveled portion of the injector housing and embodied in the base region of the piezoelectric actuator seals off the hollow chamber, which is filled with a fuel volume at high pressure, from the threaded portion.

23. **(New)** The fuel injector in accordance with claim 10, wherein the a sealing edge, cooperating with a beveled portion of the injector housing and embodied in the base region of the piezoelectric actuator seals off the hollow chamber, which is filled with a fuel volume at high pressure, from the threaded portion.

24. **(New)** The fuel injector in accordance with claim 11, wherein the a sealing edge, cooperating with a beveled portion of the injector housing and embodied in the base region of the piezoelectric actuator seals off the hollow chamber, which is filled with a fuel volume at high pressure, from the threaded portion.

25. **(New)** The fuel injector in accordance with claim 13, wherein the a sealing edge, cooperating with a beveled portion of the injector housing and embodied in the base region of the piezoelectric actuator seals off the hollow chamber, which is filled with a fuel volume at high pressure, from the threaded portion.

26. **(New)** The fuel injector in accordance with claim 9, wherein the piezoelectric actuator, above a connecting face with the booster piston, has a constricted portion.

27. **(New)** The fuel injector in accordance with claim 10, wherein the piezoelectric actuator, above a connecting face with the booster piston, has a constricted portion.

28. **(New)** The fuel injector in accordance with claim 11, wherein the piezoelectric actuator, above a connecting face with the booster piston, has a constricted portion.